

Date: Mon, 11 Jul 94 08:07:22 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #775  
To: Info-Hams

Info-Hams Digest                      Mon, 11 Jul 94                      Volume 94 : Issue 775

Today's Topics:

    Anyone from W1NY read this BBS? Hampden Co. in Mass?  
        Does CW as a pre-req REALLY Work? (3 msgs)  
Exam cheating (was:Does CW as a pre-req REALLY Work?)  
        F.E.M.A. Freq.  
        GARC Shuttle Communications Retransmissions  
            HTX202/404 Mods?  
                Icom 471a  
                    Info-Hams Digest V94 #768  
                    Kenwood TH-79A info wanted  
                New General Theory Question Pool  
            North American VHF Directory - Now available !!  
                SAREX Rise/Set Times 7/11  
Transmission problem (video over symmetric cable)  
What sends COMMAS on CW & very high power in Bowie, MD area?  
    which Ringo do I buy?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 11 Jul 1994 14:28:57 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!jobone!ukma!  
newsfeed.gsfc.nasa.gov!bolt.gsfc.nasa.gov!user@network.ucsd.edu  
Subject: Anyone from W1NY read this BBS? Hampden Co. in Mass?  
To: info-hams@ucsd.edu

Wanted to know if anyone from that club see this BBS? Used to be a member &  
board member MANY years ago. Also, what was the club call before W1NY? I

got that call for the club when I got 2nd call of W1BHJ ! Was abt. 1964?  
Abt. Dick

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W1DGA

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Date: 11 Jul 1994 12:19:31 GMT  
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!  
wvhorn@network.ucsd.edu  
Subject: Does CW as a pre-req REALLY Work?  
To: info-hams@ucsd.edu

In article <2vldmh\$dgs@search01.news.aol.com>, Wwhitby <wwhitby@aol.com> wrote:

>I am a no-code tech....

No you are not. You are a technician class amateur. The only place where  
there is such a thing as a "no-code tech" is on anal-retentive Usenet  
newsgroups.

>I didn't mean this post to offend, and I hope no offense was taken.

I'll forgive you this time, but watch it.

---Bill VanHorne

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Date: 11 Jul 94 13:40:25 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Does CW as a pre-req REALLY Work?  
To: info-hams@ucsd.edu

>Again, he's certified by the FAA, not by just a pilot's organization  
>similar to the amateur's ARRL.  
>Who administers the pilot's written exam? My ground school instructor  
>administered my written; he was certified by the FAA, not by just  
>a pilot's organization similar to the amateur's ARRL.

the FCC authorizes the VECs and the VECs authorize the VEs. there is a chain  
of command there.

Jeff, you got the license, go get the VE certification and go help. get a  
bunch of guys together and start holding testing sessions every 4-8 weeks.  
Most VE teams don't mind having new blood either.

bill wb9ivr

(been doing it since 1984 here..)

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Date: 11 Jul 1994 09:18:04 -0400  
From: ihnp4.ucsd.edu!swrinde!gatech!udel!news.intercon.com!news1.digex.net!  
digex.net!not-for-mail@network.ucsd.edu  
Subject: Does CW as a pre-req REALLY Work?  
To: info-hams@ucsd.edu

In article <77370012434n12@131.168.114.12>, Earl=Morse%EMC=SrvC wrote:  
>  
> So since it appears that most of the lids are the SSB ops who learned CW  
> but never used it, then having them retake a cw test to renew their license  
would  
> force the lids to have to maintain a knowledge of the code, thus making them  
> non-lids? :-)  
>  
> Earl Morse  
> KZ8E  
> kz8e@bangate.compaq.com

That would be a treat, wouldn't it? I'll bet most of the loud-mouthed anti-  
no-code hams would shut up fast if they had to be retested on CW for their  
license renewal; I like that idea! Bet they'd drop CW requirements REAL fast  
then!

Andy N3LCW

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Date: 11 Jul 94 13:21:29 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Exam cheating (was:Does CW as a pre-req REALLY Work?)  
To: info-hams@ucsd.edu

>The concept of self-testing, in any environment, is a clear conflict of  
>interest. Hams testing hams included.

hams are probably the hardest on themselves .. of course there were those in  
the days of the conditional willing to sell out amateur radio so it's not a  
new problem.

>I noticed in the glamorous, self-accolading article in the recent issue  
>of QST on the VE system the ARRL conveniently forgot to mention the  
>plethora of fradulent examinations which have been caught over the  
>years.

10 years + operations...certainly worth a pat on the back, i would say. now, how do you define plethora or did you just find that in your Roget's? It's always been expected that there would be cheating in the system from time to time - it even happened with the FCC running the show. you're assuming a lot of coverage = a lot of events. see OJ Simpson for another example - only 1 guy on trial but you'd think they'd finally caught the Indianapolis 500!

>Thus, one must wonder what the true rate of fraud is in the VE system.

i suspect you could ask the VECs to tell you...i would think it's low.

>Then again, does the League care? "Quantity before Quality" is their motto, after all!

actually i think you have it wrong. one big thing that helps keep the VE system honest is the public notice requirements -- wish it was a bit more stringent that just getting on the repeater 5 min before a test and "announcing" it. the ARRL certainly tries to shout from the rooftops where the sessions are -- i would think the other VEC groups would collaborate and do something similar (and it appears the ARRL/VEC would include their info in their news blasts) but they don't seem to do that.

remember back in 84 you had to have everyone preregister in advance of the exam?

>Why must one be a ham to test a ham anyway? You don't need to be a >GROL holder to test for the commercial examinations.

i dunno...new beer, new rules, i guess. certainly not all the FCC people running the amateur exams would be licensed hams. believe the thinking is that overall hams are interested in looking out for their best interest and we were willing to belly up the bar and take on the job. there's a guy locally that's a GROL admin but as far as i know there's been only 1 test and others are begging for more to be held. (i think there's 6 here at work alone..)

bill wb9ivr

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Date: 11 Jul 1994 14:27:41 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!vixen.cso.uiuc.edu!  
newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!crcnis1.unl.edu!manager@network.ucsd.edu  
Subject: F.E.M.A. Freq.  
To: info-hams@ucsd.edu

In article <CsnAtC.Anq@news.Hawaii.Edu>, jeffrey@kahuna.tmc.edu (Jeffrey Herman) says:

>Why were they even posted here? Wouldn't rec.radio.scanner be the  
>appropriate newsgroup for such lists? This group will become a mess  
>of scannerists start posting their favorite freqs.

I agree 100%, Mr. Netcop...I posted my response here because that is where the  
original article  
was posted!!! Any flames,responses,etc.,should be taken to E-mail now don't 'ya  
think?? Or  
don't 'ya?? -Dan

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Date: 11 Jul 1994 11:13:35 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!jobone!ukma!  
newsfeed.gsfc.nasa.gov!trmmstocker.gsfc.nasa.gov!stocker@network.ucsd.edu  
Subject: GARC Shuttle Communications Retransmissions  
To: info-hams@ucsd.edu

#### INTERESTED IN STS-65 SHUTTLE TRANSMISSIONS

The Goddard Amateur Radio Club (GARC) invites interested people to tune  
in to  
STS-65 shuttle ground communications transmissions. As a public service  
to the  
Amateur radio community, the GARC retransmits space shuttle air-to-ground  
communications. During the STS-65 mission which also carries a Shuttle  
Amateur Radio Experiment (SAREX), Amateur radio operators, shortwave  
listeners,  
and individuals with scanners can listen to these communications on the  
following HF (single sideband) and VHF (FM) frequencies:

- 3.860 MHz (lower sideband)
- 7.186 MHz (lower sideband)
- 14.295 MHz (upper sideband)
- 21.395 MHz (upper sideband)
- 28.650 MHz (upper sideband)
- 147.45 MHz (FM) in local Washington D.C. metro area

As previous posts have indicated STS-65 also carries SAREX.

#### Packet Radio

Callsign: W5RRR-1

Freqs: All operations in split mode. Do NOT transmit  
on the downlink frequency.

Voice Freqs: Downlink: 145.55 MHz (worldwide)

Uplinks: 144.91,144.95,144.97,144.99 MHz

Crew will not favor any specific frequency

Packet Freq:           Downlink: 145.55 MHz  
                          Uplink: 144.49 MHz

Info:                   Goddard Amateur Radio Club, WA3NAN

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*****
*   Erich Franz Stocker               *
*   N3OXM                             *
*   stocker@spsosun.gsfc.nasa.gov     *
*                                     *
* My ideas are my own and do not represent*
* the opinions of the federal government, *
* NASA or Goddard Space Flight Center.  *
*****
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Date: Mon, 11 Jul 1994 00:52:43 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!  
newsxfer.itd.umich.edu!zip.eecs.umich.edu!caen!malgudi.oar.net!witch!doghouse!  
jsalemi@network.ucsd.edu  
Subject: HTX202/404 Mods?  
To: info-hams@ucsd.edu

In article <2vo9a2\$83t@freenet3.scri.fsu.edu>, Charles Richards  
(chuck62@freenet3.scri.fsu.edu) writes:  
> Does anybody have, or know where I can get plans for modifications  
>(freq. expanding, etc.) for the HTX202 or HTX404? And is it possible to  
>get the 404 up to 462.675(React)?  
>

Sorry, but the answer to your questions is that it's not possible to  
mod those radios. One of the reasons for their good reputation for not  
suffering from intermod problems is their tight front-end. That tight  
front-end also prevents modifying the radios to work out-of-band.

73...joe

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Joe Salemi, KR4CZ

Internet: jsalemi@doghouse.win.net

Compuserve: 72631,23 FidoNet: 1:109/136 MCI Mail: 433-3961

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Date: 11 Jul 94 15:09:11 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Icom 471a  
To: info-hams@ucsd.edu

I would like to mod a ic471a (UHF MULTI MODE) to recieve at 421  
MHZ (ATV Repeater output). This rig is not listed in any book I  
can find.

Any info would help

Email tedk@formail.formation.com  
73 de N3OWM :->

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Date: 11 Jul 94 14:35:20 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Info-Hams Digest V94 #768  
To: info-hams@ucsd.edu

Hello, I thought I would share some interesting VHF propagation news.  
Yesterday 7/11/94 starting at 0030 Zulu, I worked the following on 2 meter SSB.  
40 stations in the Seattle area, one VE7 in Canada, a station in Idaho, then  
another in Montana.....Mode of propagation was Sporadic E. The whole time, six  
meters was open with short skip propagation into ore, wash..etc....  
Just thought I would let readers know to listen closely during the May, June,  
and July months for this mode of propagation.  
73 from the Northern Mojave Desert DM15...de KB6IGC.....Todd.

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Date: 11 Jul 1994 09:21:40 -0400  
From: news.gcr.com!ukelele!geist@uunet.uu.net  
Subject: Kenwood TH-79A info wanted  
To: info-hams@ucsd.edu

jhong@fnma.com (Joseph Hong) writes:

>Does any one has production information (spec) for Kenwood TH-79A? It  
>should replace TH-78A. Radio Center (Kansas City) gave me a \$469 quote.

I believe the model is TH-72(a?). It is the dual-band version of  
the TH22 and TH42. I tried it out at the store, it's nice. Thinner  
than the 78A.

Supplied battery is 6V 600mah, power out 3W. Don't know what RX range is.

--  
/-----/  
/       geist@ukelele.gcr.com       /       This post 100%  
/   packet: ko4er@wa3tai.md.usa.na   /   content free. Really!  
/-----/

-----  
Date: 11 Jul 1994 12:10:35 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.duke.edu!acpub.duke.edu!  
thomasr@network.ucsd.edu  
Subject: New General Theory Question Pool  
To: info-hams@ucsd.edu

I just passed my 13 wpm code test!!!! Now I want to take the General theory exam. My Radio Shack study guide is outdated as of this month. Where can I ftp the new general study pool?  
Thanks.  
Ron Thomas

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Date: 11 Jul 1994 14:32:38 GMT  
From: lll-winken.llnl.gov!overload.lbl.gov!agate!howland.reston.ans.net!gatech!  
news-feed-1.peachnet.edu!ukma!newsfeed.gsfc.nasa.gov!bolt.gsfc.nasa.gov!  
user@ames.arpa  
Subject: North American VHF Directory - Now available !!  
To: info-hams@ucsd.edu

As this is NO CREATION of new data, it should be made free to the Newsreaders!

Yes you had to POUND it in. It will take much up dating also, however it should be for the benefit of thoes ON THE LIST. This can be had by getting the VHF / UHF subnewsgroup reader list & building on it. Likely 50 or more on that. Just my 2 cents & great desire to share data. Dick

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Date: 11 Jul 94 14:04:49 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: SAREX Rise/Set Times 7/11  
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-65.004  
STS-65 Eastern R/S Times 07/11



Below are the rise and set times for STS-65 for selected US cities over the next four days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon  
tca = time of closest approach to observer  
set = time that shuttle disappears below horizon  
el = maximum elevation above horizon  
geo = geometry: A = Ascending orbit, moving south to north  
D = Descending orbit, moving north to south  
E = passes east of observer  
W = passes west of observer

#### New York City

##### STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	13:59:01	14:02:19	14:05	6	A-E	47
11Jul94	15:34:09	15:37:22	15:40	5	D-W	48
12Jul94	14:06:28	14:09:51	14:12	6	D-W	63
13Jul94	12:39:01	12:42:13	12:44	5	A-E	78
13Jul94	14:13:59	14:17:16	14:20	6	D-W	79
14Jul94	12:46:16	12:49:31	12:52	6	D-E	94

#### Washington D.C.

##### STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	13:58:00	14:01:41	14:04	8	A-E	47
11Jul94	15:33:07	15:36:50	15:40	9	D-W	48
12Jul94	12:30:55	12:34:08	12:36	5	A-E	62
12Jul94	14:05:29	14:09:15	14:12	9	D-E	63
12Jul94	15:40:57	15:44:24	15:47	7	D-W	64
13Jul94	12:38:06	12:41:34	12:44	8	A-E	78
13Jul94	14:12:59	14:16:43	14:19	9	D-W	79

14Jul94	12:45:16	12:48:54	12:52	9	D-E	94
14Jul94	14:20:36	14:24:03	14:27	8	D-W	95

Atlanta, GA

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	12:21:08	12:24:34	12:27	7	A-E	46
11Jul94	13:55:30	13:59:51	14:03	19	A-E	47
11Jul94	15:30:48	15:35:18	15:39	26	D-W	48
11Jul94	17:06:29	17:10:43	17:14	16	D-W	49
12Jul94	12:28:19	12:32:10	12:35	11	A-E	62
12Jul94	14:03:12	14:07:32	14:11	24	A-E	63
12Jul94	15:38:34	15:43:00	15:46	23	D-W	64
12Jul94	17:14:29	17:18:22	17:21	10	D-W	65
13Jul94	11:01:21	11:04:27	11:07	5	A-E	77
13Jul94	12:35:33	12:39:42	12:43	17	A-E	78
13Jul94	14:10:45	14:15:08	14:19	26	D-E	79
13Jul94	15:46:17	15:50:34	15:54	18	D-W	80
13Jul94	17:22:38	17:25:50	17:28	5	D-W	81
14Jul94	11:08:00	11:11:48	11:15	10	A-E	93
14Jul94	12:42:51	12:47:08	12:50	22	A-E	94
14Jul94	14:18:15	14:22:36	14:26	24	D-W	95
14Jul94	15:53:59	15:57:59	16:01	12	D-W	96

Miami, FL

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	12:20:15	12:24:44	12:28	37	A-E	46
11Jul94	13:55:53	14:00:28	14:04	56	A-W	47
11Jul94	15:31:42	15:36:22	15:40	45	D-E	48
11Jul94	17:07:29	17:12:11	17:16	70	D-W	49
11Jul94	18:43:35	18:47:42	18:51	14	D-W	50
12Jul94	10:52:49	10:56:58	11:00	15	A-E	61
12Jul94	12:27:57	12:32:32	12:36	74	A-E	62
12Jul94	14:03:48	14:08:21	14:12	44	D-W	63
12Jul94	15:39:34	15:44:16	15:48	58	D-E	64
12Jul94	17:15:22	17:19:57	17:24	34	D-W	65

12Jul94	18:52:03	18:55:22	18:58	6	D-W	66
13Jul94	11:00:10	11:04:34	11:08	29	A-E	77
13Jul94	12:35:40	12:40:15	12:44	65	A-W	78
13Jul94	14:11:35	14:16:08	14:20	43	D-E	79
13Jul94	15:47:17	15:52:00	15:56	86	D-E	80
13Jul94	17:23:16	17:27:33	17:31	18	D-W	81
14Jul94	09:32:38	09:36:35	09:40	11	A-E	92
14Jul94	11:07:33	11:12:05	11:16	58	A-E	93
14Jul94	12:43:20	12:47:53	12:51	47	A-W	94
14Jul94	14:19:13	14:23:47	14:27	52	D-E	95
14Jul94	15:54:55	15:59:32	16:03	44	D-W	96
14Jul94	17:31:19	17:34:59	17:38	8	D-W	97

Compiled by Dan Schultz, N8FGV  
 Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group  
 Send comments to [n8fgv@amsat.org](mailto:n8fgv@amsat.org)  
 /EX

SB SAREX @ AMSAT \$STS-65.005  
 STS-65 Central R/S Times 07/11

Below are the rise and set times for STS-65 for selected US cities over the next four days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon  
 tca = time of closest approach to observer  
 set = time that shuttle disappears below horizon  
 el = maximum elevation above horizon  
 geo = geometry: A = Ascending orbit, moving south to north  
                   D = Descending orbit, moving north to south  
                   E = passes east of observer  
                   W = passes west of observer

Chicago, IL

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	15:31:29	15:34:36	15:37	5	D-E	48

13Jul94	14:11:33	14:14:30	14:16	5	D-E	79
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14Jul94	14:18:51	14:21:46	14:24	5	D-W	95
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Huntsville, AL

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	13:55:14	13:59:25	14:03	15	A-E	47
11Jul94	15:30:24	15:34:48	15:38	21	D-W	48
11Jul94	17:06:01	17:10:11	17:13	14	D-W	49
12Jul94	12:28:05	12:31:47	12:34	8	A-E	62
12Jul94	14:02:51	14:07:05	14:10	19	A-E	63
12Jul94	15:38:08	15:42:29	15:46	19	D-W	64
12Jul94	17:14:01	17:17:48	17:21	10	D-W	65
13Jul94	12:35:19	12:39:17	12:42	13	A-E	78
13Jul94	14:10:22	14:14:39	14:18	21	D-E	79
13Jul94	15:45:49	15:50:02	15:53	16	D-W	80
13Jul94	17:22:08	17:25:16	17:27	5	D-W	81
14Jul94	11:07:57	11:11:25	11:14	7	A-E	93
14Jul94	12:42:32	12:46:41	12:50	17	A-E	94
14Jul94	14:17:50	14:22:05	14:25	20	D-W	95
14Jul94	15:53:30	15:57:26	16:00	11	D-W	96

Houston, TX

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	12:18:28	12:21:51	12:24	6	A-E	46
11Jul94	13:52:49	13:57:12	14:01	26	A-E	47
11Jul94	15:28:07	15:32:49	15:37	62	A-E	48
11Jul94	17:03:49	17:08:30	17:12	52	D-W	49
11Jul94	18:39:42	18:44:01	18:47	18	D-W	50
12Jul94	12:25:26	12:29:29	12:33	13	A-E	62
12Jul94	14:00:26	14:04:57	14:08	41	A-E	63
12Jul94	15:35:56	15:40:38	15:44	66	D-E	64
12Jul94	17:11:40	17:16:15	17:20	35	D-W	65
12Jul94	18:47:50	18:51:41	18:55	10	D-W	66

13Jul94	12:32:45	12:37:02	12:40	22	A-E	78
13Jul94	14:08:03	14:12:37	14:16	57	A-E	79
13Jul94	15:43:44	15:48:18	15:52	57	D-W	80
13Jul94	17:19:27	17:23:51	17:27	22	D-W	81
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14Jul94	12:40:04	12:44:32	12:48	35	A-E	94
14Jul94	14:15:36	14:20:11	14:24	66	D-E	95
14Jul94	15:51:19	15:55:50	15:59	41	D-W	96
14Jul94	17:27:15	17:31:17	17:34	13	D-W	97

Denver, CO

#### STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	15:27:39	15:31:02	15:33	6	A-E	48
11Jul94	17:02:31	17:06:08	17:09	8	D-W	49
12Jul94	15:35:00	15:38:35	15:41	8	A-E	64
12Jul94	17:10:16	17:13:42	17:16	7	D-W	65
13Jul94	14:07:42	14:10:56	14:13	6	A-E	79
13Jul94	15:42:31	15:46:01	15:49	8	D-W	80
13Jul94	17:18:05	17:21:07	17:23	5	D-W	81
14Jul94	14:14:50	14:18:14	14:21	7	A-E	95
14Jul94	15:49:57	15:53:21	15:56	7	D-W	96

Compiled by Dan Schultz, N8FGV

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to [n8fgv@amsat.org](mailto:n8fgv@amsat.org)

/EX

SB SAREX @ AMSAT \$STS-65.006

STS-65 Western R/S Times 07/11

Below are the rise and set times for STS-65 for selected US cities over the next four days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon  
tca = time of closest approach to observer  
set = time that shuttle disappears below horizon  
el = maximum elevation above horizon  
geo = geometry: A = Ascending orbit, moving south to north  
D = Descending orbit, moving north to south  
E = passes east of observer  
W = passes west of observer

Seattle, WA

STS-65 Element Set JSC-06

no visible passes

Albuquerque, NM

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	13:52:06	13:55:15	13:57	5	A-E	47
11Jul94	15:26:16	15:30:28	15:34	15	A-E	48
11Jul94	17:01:29	17:05:50	17:09	19	D-W	49
11Jul94	18:37:11	18:41:11	18:44	12	D-W	50
12Jul94	13:59:03	14:02:50	14:06	9	A-E	63
12Jul94	15:33:55	15:38:08	15:41	18	A-E	64
12Jul94	17:09:14	17:13:31	17:17	17	D-W	65
12Jul94	18:45:15	18:48:47	18:51	7	D-W	66
13Jul94	14:06:20	14:10:20	14:13	14	A-E	79
13Jul94	15:41:26	15:45:41	15:49	19	D-W	80
13Jul94	17:16:57	17:21:03	17:24	13	D-W	81
14Jul94	12:38:54	12:42:28	12:45	8	A-E	94
14Jul94	14:13:35	14:17:44	14:21	17	A-E	95
14Jul94	15:48:55	15:53:07	15:56	18	D-W	96
14Jul94	17:24:42	17:28:25	17:31	9	D-W	97

Los Angeles, CA

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	15:24:01	15:27:55	15:31	12	A-E	48
11Jul94	16:58:51	17:03:18	17:07	23	A-E	49
11Jul94	18:34:21	18:38:44	18:42	20	D-W	50

11Jul94	20:10:23	20:14:02	20:17	8	D-W	51
12Jul94	13:57:04	14:00:19	14:03	6	A-E	63
12Jul94	15:31:24	15:35:34	15:39	17	A-E	64
12Jul94	17:06:33	17:11:00	17:14	24	D-W	65
12Jul94	18:42:13	18:46:24	18:50	15	D-W	66
13Jul94	14:03:56	14:07:48	14:11	10	A-E	79
13Jul94	15:38:50	15:43:08	15:46	21	A-E	80
13Jul94	17:14:16	17:18:34	17:22	21	D-W	81
13Jul94	18:50:05	18:53:55	18:57	10	D-W	82
14Jul94	14:11:07	14:15:11	14:18	15	A-E	95
14Jul94	15:46:15	15:50:35	15:54	24	D-E	96
14Jul94	17:21:51	17:26:00	17:29	17	D-W	97
14Jul94	18:58:06	19:01:16	19:03	5	D-W	98

Honolulu, HI

STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	15:14:29	15:17:59	15:21	7	A-E	48
11Jul94	16:48:57	16:53:29	16:57	52	A-E	49
11Jul94	18:24:51	18:29:17	18:33	27	A-W	50
11Jul94	20:01:06	20:05:24	20:09	17	D-W	51
11Jul94	21:37:01	21:41:32	21:45	25	D-E	52
11Jul94	23:12:42	23:17:24	23:21	67	D-W	53
12Jul94	00:49:05	00:52:48	00:56	9	D-W	54
12Jul94	15:21:26	15:25:41	15:29	16	A-E	64
12Jul94	16:56:44	17:01:18	17:05	64	A-W	65
12Jul94	18:32:57	18:37:15	18:41	20	A-W	66
12Jul94	20:09:05	20:13:25	20:17	18	D-E	67
12Jul94	21:44:49	21:49:28	21:53	41	D-E	68
12Jul94	23:20:40	23:25:09	23:29	27	D-W	69
13Jul94	13:54:48	13:57:51	14:00	5	A-E	79
13Jul94	15:28:50	15:33:18	15:37	37	A-E	80
13Jul94	17:04:35	17:09:03	17:13	32	A-W	81
13Jul94	18:40:56	18:45:08	18:48	17	D-W	82
13Jul94	20:16:50	20:21:17	20:25	22	D-E	83
13Jul94	21:52:30	21:57:12	22:01	88	D-E	84
13Jul94	23:28:45	23:32:44	23:36	12	D-W	85
14Jul94	14:01:16	14:05:17	14:08	12	A-E	95
14Jul94	15:36:18	15:40:51	15:44	86	A-W	96

14Jul94	17:12:26	17:16:45	17:20	22	A-W	97
14Jul94	18:48:42	18:52:54	18:56	17	D-E	98
14Jul94	20:24:24	20:28:59	20:33	33	D-E	99
14Jul94	22:00:10	22:04:44	22:08	36	D-W	100

Compiled by Dan Schultz, N8FGV  
Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group  
Send comments to [n8fgv@amsat.org](mailto:n8fgv@amsat.org)  
/EX

SB SAREX @ AMSAT \$STS-65.007  
STS-65 World R/S Times 07/11

Below are the rise and set times for STS-65 for selected worldwide cities over the next four days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon  
tca = time of closest approach to observer  
set = time that shuttle disappears below horizon  
el = maximum elevation above horizon  
geo = geometry: A = Ascending orbit, moving south to north  
D = Descending orbit, moving north to south  
E = passes east of observer  
W = passes west of observer

London, England  
STS-65 Element Set JSC-06

no visible passes

Paris, France  
STS-65 Element Set JSC-06

no visible passes

Tokyo, Japan  
STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
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11Jul94	22:58:28	23:02:37	23:06	14	A-E	53
12Jul94	00:33:35	00:37:52	00:41	17	D-W	54
12Jul94	02:09:19	02:13:10	02:16	10	D-W	55
12Jul94	21:31:15	21:35:00	21:38	9	A-E	68
12Jul94	23:06:07	23:10:17	23:13	17	A-E	69
13Jul94	00:41:13	00:45:24	00:49	15	D-W	70
13Jul94	02:17:20	02:20:38	02:23	6	D-W	71
13Jul94	21:38:32	21:42:29	21:45	13	A-E	84
13Jul94	23:13:38	23:17:49	23:21	18	D-W	85
14Jul94	00:48:50	00:52:47	00:56	11	D-W	86
14Jul94	20:11:05	20:14:38	20:17	8	A-E	99
14Jul94	21:45:46	21:49:53	21:53	16	A-E	100
14Jul94	23:21:07	23:25:14	23:28	16	D-W	101

# Sydney, Australia

## STS-65 Element Set JSC-06

date	rise	tca	set	el	geo	orbit
11Jul94	13:20:10	13:24:21	13:28	16	A-W	46
11Jul94	14:56:37	14:59:36	15:02	5	A-W	47
12Jul94	08:42:03	08:45:51	08:49	10	D-E	59
12Jul94	10:16:50	10:21:12	10:25	22	D-E	60
12Jul94	11:52:16	11:56:39	12:00	22	A-W	61
12Jul94	13:28:07	13:32:00	13:35	11	A-W	62
13Jul94	08:49:13	08:53:22	08:57	15	D-E	75
13Jul94	10:24:21	10:28:47	10:32	24	A-E	76
13Jul94	11:59:57	12:04:13	12:07	18	A-W	77
13Jul94	13:36:12	13:39:29	13:42	6	A-W	78
14Jul94	07:21:53	07:25:29	07:28	8	D-E	90
14Jul94	08:56:28	09:00:48	09:04	20	D-E	91
14Jul94	10:31:50	10:36:14	10:40	24	A-W	92
14Jul94	12:07:37	12:11:37	12:15	13	A-W	93

Compiled by Dan Schultz, N8FGV

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

Send comments to [n8fgv@amsat.org](mailto:n8fgv@amsat.org)

/EX

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Date: Mon, 11 Jul 1994 12:28:01 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!sunic!trane.uninett.no!  
eunet.no!nuug!EU.net!sun4nl!news.nic.surfnet.nl!tudelft.nl!news@network.ucsd.edu  
Subject: Transmission problem (video over symmetric cable)  
To: info-hams@ucsd.edu

Hello all.

This is propably not the right group, but what is ?

I would like to connect a video camera (monitoring a robot)  
to a monitor in another room using the standard (UTP) cabling  
and patchboards available in the building.  
I think this is really a transmission problem: converting  
75 ohm asymetric to xxx Ohm symmetric.

I do not know or the quality of the UTP cabling is good for this  
purpose. I don't know the impedance.

Any ideas are welcome.

Adrie, pe1dqv

Faculty of Industrial Design Engineering,  
Delft University of Technology.

Adrie Kooijman  
TU Delft, Industrieel Ontwerpen  
e-mail: A.Kooijman@IO.TUDelft.NL

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Date: 11 Jul 1994 14:38:00 GMT  
From: elroy.jpl.nasa.gov!lll-winken.llnl.gov!overload.lbl.gov!dog.ee.lbl.gov!  
agate!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!ukma!  
newsfeed.gsfc.nasa.gov!bolt.gsfc.nasa.gov!user@@.  
Subject: What sends COMMAS on CW & very high power in Bowie, MD area?  
To: info-hams@ucsd.edu

One home TV wipes out on all channels when this COMMA machine is on!  
Removes color. Other TVs do not see it. comma & 4 seconds, agn comma.  
(..--..). Not on any ham freq. HF nor 2 nor 6! Abt 15 min at beg. of ever  
hr & 15 min at Half hr.  
Poss. Air Force transmitting station 2 miles away? Dick W1DGA

--

W1DGA

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Date: Mon, 11 Jul 1994 12:22:29 GMT  
From: ihnp4.ucsd.edu!swrinde!emory!rsiatl!ke4zv!gary@network.ucsd.edu  
Subject: which Ringo do I buy?  
To: info-hams@ucsd.edu

In article <9407051514.AA26678@pobox.wellfleet> ginsburg@wellfleet.com writes:  
>I'm in the market for a 2 meter vertical for use mostly on packet and  
>it looks like the Cushcraft Ringo is the most popular product. Which  
>of the 3 varieties, Ringo, Ringo Ranger or Ringo Ranger II should I  
>plunk my money down for? Is the RR II that much better than the RR in  
>terms of gain and bandwidth?

Alas, the Ringo is popular because it is cheap, not because it is good.  
It will show an excellent VSWR bandwidth, but so does a dummy load.  
What it won't offer is a clean pattern, gain comensurate with it's size,  
or reasonable longevity. A Comet or Diamond will be better, even a J-pole  
will be better than the basic Ringo. About the only antenna that is worse  
than a Ringo is a Cushcraft 4-pole (fah, a piece of junk). Short of buying  
a Cellwave antenna (mucho \$\$\$), a Comet or Diamond will give the best bang  
for the buck. (Note you can \*build\* a Comet or Diamond type antenna fairly  
easily and cheaply. That really gives the best bang for the buck.)

A note on VSWR bandwidth. Any \*simple\* monopole antenna that has a  
2:1 VSWR bandwidth over greater than 2 MHz at 2 meters has something wrong  
with it, like horrible efficiency. (Measurement interpretation errors  
can fool you here. If the coax has greater than 5 db of loss, you'll  
never see greater than 2:1 VSWR at the transmitter, even if the antenna  
is shorted or open.) More complex antenna designs \*can\* have greater  
bandwidth and still retain efficiency (log colinear stacks, log periodic  
yagis, bowties, etc), but only if the implementation of the design is good.

Gary

--  
Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary  
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary  
534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary  
Lawrenceville, GA 30244 | |

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Date: 11 Jul 1994 06:57:16 -0700  
From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!news.tek.com!macs!macs!not-for-  
mail@network.ucsd.edu

To: info-hams@ucsd.edu

References <2vbodi\$opb@macs.ico.tek.com>,  
<wb9omc.773515194@constellation.ecn.purdue.edu>, <gradyCsqDMw.6JK@netcom.com>  
Subject : Re: Radios for Emergency Use

In article <gradyCsqDMw.6JK@netcom.com> grady@netcom.com (Grady Ward) writes:

>I am completely happy with an Icom W2A with the extended transmit and  
>receive modifications using a lithium AA battery pack.

>This rig is able to hit everything from 121.5 satellites to National  
>Park Service in the 170 Mhz range, not to mention and equally wide  
>swath in the UHF area.

A \*serious\* word of warning here. It is usually fairly easy to modify amateur radios to work on nearby commercial frequencies. However except for emergencies it is illegal to transmit on those frequencies with anything except a "type accepted" radio. Type acceptance is a fairly involved and expensive process which you wouldn't want to do for a single radio, it is worth the expense only for manufacturers who will make a and sell a lot of radios to recover the investment. (I am not familiar with the Icom W2A but I suspect it is not type accepted.)

Amateurs are allowed to transmit with non type accepted radios in the amateur bands only. Commercial frequencies (which include SAR and Forest Service frequencies) have much tighter equipment requirements. On a commercial frequency it is not enough that your radio meet specs, the FCC must have certified that it will meet those specs. Violation of these regulations can result in \*large\* fines (kilobucks).

In an emergency you can bend this rule but only in a real emergency (the FCC will have to agree it was an emergency and that no other suitable means of communication was available). This also applies only to the communications necessary to deal with the emergency, don't call up the rescuers to thank them on a non-type accepted radio.

Yes, my 2 meter set is modified to transmit on SAR frequencies but I have never used it there, and the only time I would use it there is in an emergency. Even on SAR operations I use it only on amateur frequencies. On SAR frequencies I use a type accepted radio provided by my unit. This can be a pain in the neck but that is the law.

The FCC has recently been cracking down on those who violate this rule, including several SAR people. There was an article about this

in a recent issue of the Mountain Rescue \_Forum\_. (I could probably find it if somebody wants a reference.)

Be aware that in the U.S. \*only\* the FCC can regulate such things. I am personally aware of cases in which state SAR coordinators or local sheriffs have issued letters to SAR personnel "authorizing" them to use non type accepted radios on SAR frequencies. Those letters are not worth the paper they are printed on. The local or state authorities may own the rights to use the frequency but they do not have authority to authorize a particular radio on that frequency, only the FCC can do that. This is a prerogative which the FCC guards rather jealously. Any local authority issuing such a letter is misinformed and will likely cause trouble for both themselves and anybody acting on their misinformation.

Personally I would like to see this rule modified to allow use of non type accepted radios in SAR training and operations, provided those radios transmit no more than 7 watts. This would simplify things for many of us. (Type accepted radios typically cost several times as much as non accepted radios and usually do not have all the features of an amateur rig). However until such time as the rule is modified (if ever) I will continue to obey it.

Anybody care to join me in a letter writing campaign to the FCC?

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Date: 11 Jul 1994 09:18:14 -0400  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!news.intercon.com!  
news1.digex.net!digex.net!not-for-mail@network.ucsd.edu  
To: info-hams@ucsd.edu

References <773527731.27snx@n2ayj.overleaf.com>,  
<1994Jul7.153925.1@woods.um1.edu>, <2vjgg4\$i5d@crl3.crl.com>  
Subject : Re: Copying CW, and why it's friendlier than phone

In article <2vjgg4\$i5d@crl3.crl.com>, Henry B. Smith wrote:

> My commute is about an hour long and I work 40 CW in the morning  
> (about 6 AM CST) and 20 CW in the evening (about 4:30 PM CST).  
>  
> Give me a call if you hear me!  
>  
> Smitty, NA5K/M  
>  
Smitty,

Where on 40M CW are you 'parked'? I hang around 7040 - 7050 mobile CW...

Andy N3LCW

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End of Info-Hams Digest V94 #775

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